

Avatiligiyit Kanatami Ukiuqtaqtup Hinaani Tingmiat Naunaiyarnit



**Pivallianingit Tuhaagakhalit 2015 Maniqqami
Tuhagakhaliat piyunnautingit NIRB-kkut titiqait
06AN026 taamnalu 05AN011**

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Amihut amigaitni hinaani tingmiat humiliqak hilaqyuaqmi ikiklivalliyut. Una piluaqtumik aturtuq tahamani unghiktunut aulaqpaktunit ivayartuqtut tahamani North America Ukiurtaqtuani aulaqpaktutlu ukiyaqtuqvikmingnut tahamani Qaplunaat Nunatni. Atauttikut, tahamani Ukiurtaqtuq ahianguqpaliayuq qilamik. Hiku, hila nayuqtauvaktuqlu ilaa aktuayayuyut hivituyumik ahityiqtaqni hilap. Halumailgut nuktigauyut tahamuna unghiktumun aktualaqtai taniqnami-niginiaqtut tingmiat nigivaktailuniit qanuq naunaqtumik. Ahianguqnit piguaqhainiqmun pitquhit tahamani Amialikani ikayuqhiutihimayut angiyumik ilagiaqnit amigaitni ukiurtaqtumi kangut, tatyalu tahapkuat amigaiqpiaqtut Uhuguqtigiyut hinaani mihaluqaqniqn timer ilaini nunani tahapkuat ivavaktut nutqangavitlu niginiaqv timer aulaqtitlugit. Tamna aktilanga uuma huguqtiqnit qanuqlu aktualaqni ahii angutikhat naunaqtuq.

Avatiligiyit Kanatami qiniqtut kangiqhinahuaqhugit qanuqtut tahapkuat hinaani natiqn timer mihaluqaqnit ahianguligiakh timer, qanuqlu tahapkuat ahiangugut timer aktuayakh timer tingmiat amigait timer. Naunaiyaqtavut tapkuat pityut timer aktuay timer hinaani tingmiat amigait timer allatqik timer ivattiaqpang timer, naunaighuaqt timer qanuqtut ahiangiqtiq timer tahamani Ukiurtaqtum timer pityutaulagikh timer amigait timer ikiklivall timer tahapkun timer allatqik timer. Qangahaq, naunaiyain timer pinahuaqniqh timer naliqn timer/qanuqlun timer kangut ivayaqtuqh timer amigait timer piaqtut aktuayang timer tapkun timer hinaani tingmiat amigait timer ublulit timer. Hutqiyayuakh timer hinaani tingmiat ivattiaqn timer nunani atuqpaktun timer allatqin timer akhuqtigiv timer kanguqaqn timer amigait timer, naunaigumayavut tapkuat aktuan timer kangun timer tugangayut ahianguq timer nayuqpaktain timer qanugit timer angunahuqpak timer akhuqtitaun timer hinaani tingmiat amigait timer, naunaiqlugitlu qanuq tahapkuat pityut timer piyang timer tautugaun timer ikiklivall timer hinaani tingmiat qaphiun timer. Qaiyuni ukiun timer, attaqtuhiq timer naunaiyain timer ilaliutlugit ahii mihaluqaq timer tingmiat tahapkuat timer Sabine's Nauyait Imitqut timer.

Naunaiyain timer Katutyiqatig timer

Naunaiyautivut havagut timer talvani East Bay tamnalu Coats Qikirtaq katitlugit pinahuagutauyut amihun timer inungn timer timiuyun timer. Atuqn timer naunaiy timer 2014-timer ilagit Dr. Paul Smith, Jennie Rausch tamnalu Dr. Grant Gilchrist (Avatiligiyit Kanatami), Dr. Erica Nol (Trent Hilattuqhaivik), Dr. Mark Mallory (Acadia Hilattuqhaivik), Dr. Oliver Love (Hilattuqhaiv timer Windsor), Dr. Stephen Brown (Manomet Havakv timer tapkun timer Nungut timer Naunaiy timer), tamnalu Dr. Larry Niles (Nunagut timer Angutikhat Tunngavia taphuma New Jersey). Tamna havanguyuq ilaliutiy timer Christine Eberl, Mike Janssen, Jake Ruseel Mercier (Avatiliq timer Kanatami). Taamna aallatqit ilaliutah timer ukunngat Ukiurtaqtum timer Hinaani Tingmiat Qaphiun timer Havagut timer (ASDN-timer), tamna Havagut Nunaliit Avikh timer Hilaqyuaq timer Hinaani Tingmiat Munag timer (PRISM-timer), tapkual timer Ukiurtaqtum timer Kangut Katutyiqatig timer (AGJV-timer).

2015 Naunaiyain timer Aturniqhai

Maniqqami havat talvani Coats Qikirtaq tamnalu East Bay ilalgit nanini munaginilu ubluit hinaani tingmiat, tiguni mikilgaqmityiqnilu iniqnit hinaani tingmiat, katitiqni hauniittut uumayuvaluit, naunaiyaqnilu ublut nayuqpaknit/nauvaknit. Ublut inilgit munagiyauyutlu tahamuuna ivavaknita auyata ilaani naunaiqhimaplugit ahianguqnit pivigiyainut ivavaknit, munagini piaganiktittiaqnit naunaiqnilu tapkuat aktuanit ublunit niqauvakni. Tingmiat mikilgaqmityiqtauyut haviknik mikilgaqmianik ilailu attahiqtauyut naniyaulagutainik tapkuatluniit VHF naalautinut tuhaqnagutit (nano attatit) naunaigahuaqhugit aulaqpaknit aulagiangi, ukivakvit inait aulaguhtalu pitquhit. Naunaipkutat aktilat ubluit attahiqhimayut tingmiat titiqhimayut talvani Titiqat 1.

Talvangaanit ublut amihuuningit ubluqattiarnitlu pukkittut tapkunani inaitni 2014-mi hutqiyauninut hivuani ukiuni, ublut amigaitningit 2015 mi uvani Coat-mi hilataaniinngittuni naammagiyauyut uukturnianut Coats-mi, ivaviuningit ikittuunniqtuq East Bay-mi. Hilarluinnaqhunilu ukiungani nayugaanit ukiumi kihimi tukihimannaittuni tingmiaqqukittuni East Bay-mi. Tadja ihivriuqhihimayavut hungmangaat ikitpalliahimayut nayuqpauhingit kanguit amigaitpallaaramik ingilrayut ikitpalliaayungnaqhigamik taryum hinaani ivavaktut amihuuningit. Uvani East Bay-mi, tingmiat tuulliqhimagaluaqtut tikinnamik, ilangittauq angikliktiqhimainnamiglu. Avinngait ikitpallaaqhutiktauq ukiumi uvani East Bay mi: naniriaqtuqhimayut ikitpallaaqhimayuqtauq auyami, avinngaahimannaittunilu. Ikitpallaarami avinngarnit ikitpallaaqhimavlunilu kangurnit, aput auktulihaaqhimagaluaarmattauq, tiriganniakhivallaaqhunilu uvani tingmiat ivavyangittunilu East Bay mi auyami.

Titiqat 1. Tapkuat qaphiuni ublut naniyauyut talvani East Bay tamnalu Coats Qikirtaq inigiyaupingni, tapkuat qaphiuni tingmiat mikligaqmialgit qaphiunilu naalagutilgit piyauyut.

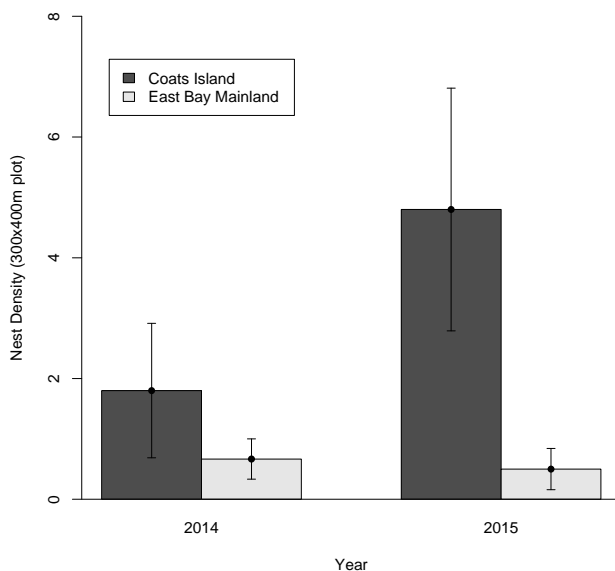
Naunaiyaivik	Tingmiat Allatqikni Naunaiyagat	Ublut Munagiyauyut	Tingmiat Mikilgaqmityiqtat	Nunaliqutit Naunaipkutat Piyauyut	Naunaiqhimatyutit Atuqtaunit
East Bay Iluilikmi	Tuituaq, American Tuituaq, Higyagiannuaq, Haavgaq, Tuituaryuk, Higyagiaq, Tuituaqpalkutut, Dunlin tamnalu Tunguyuktuq Tuituaqyuit	63	12		20 nano attatit
Coats Qikiqtaq	American Tuituaq, Qiqnagiktumik Naalik Tuituaq, Higyagiannuaq, Haavkgaq, Higyagiaq, Tigyagiannuaq, Dunlin Qakuqtuqmik Iqulik Tuituaq	118	58	28 nano attatit	30 (tamarmit SESAt)

Hivulliqhiutit Qanugitni

Hinaani Tingmiat Piyauyut, Mikligaqmityiqtat Naunaiyaqtatlu

Havat atuni inigiyauni piyauyut iluani nunat mikhaani 12km². Naunaiyaiqpiqnit tingmianik iniqtauyut tapkunani siksit - 400m x 300m naunaiyaqtauyut inait talvani Coats Qikiqtaq tamnalu

East Bay, tahapkuatlu naunaiyaqtauqpiagtut inait ilagiyauniat piplugit nutat titiqat ivaniuyut amigaitninut tapkunani inaitni, naunaiyaqtauqhaqtukhat. Uvani 2014 mi, ivayut amihuuningit ikitpalliayug East Bay mi 2015 mi aahiit ukiunganit, amigaitpalliavluni (2.5x 2014 mit amihuuningit) uvani Coats Qikiqtami (Titiqqat 1), amihuuningit qanivluni ilitqurhingit. Hilarlukkami tukihinnaqhuni ikitpalliagami uvani East Bay mi. Tadja ihivriuhimayavut hungmat ikitpallaahimagamik kanguit amigaitpallaahuni ingilravlutik ikitpalliavlunilu taryum hinaa tingmidjat uvani East Bay-mi. Ivayunit nanihimayangit, amigaitqiyauvluniguuq Coats Qikiqtami Tuituaryuit (81 ivayunit), uuminngattauq Dunlin (37), unalu Higariat, Tuituaqyukpaluktut unali Amialikan Tuituaq (16,15,15). East Bay-mi, amihuuyut uumayuit hapkuat Qakuqtait Tuituaqpaluktut (56) unalu Tuituat (15). Ihivriutauhimayut aungit hulungillu kititiqtauhimayut aallatqiinut havaariyauyukhanut (Titiqqat 2). Uuminngatut, aungit ihivriurningit qauyihqtauhimayut qanuq kummagiakhaat, timingit qanurilinganigit “unagugiakhaita” ihivriutqangit tingmianut ininganit ahiruqhimayumi kangurnit hamanngat naammatqiyaani ininganit.



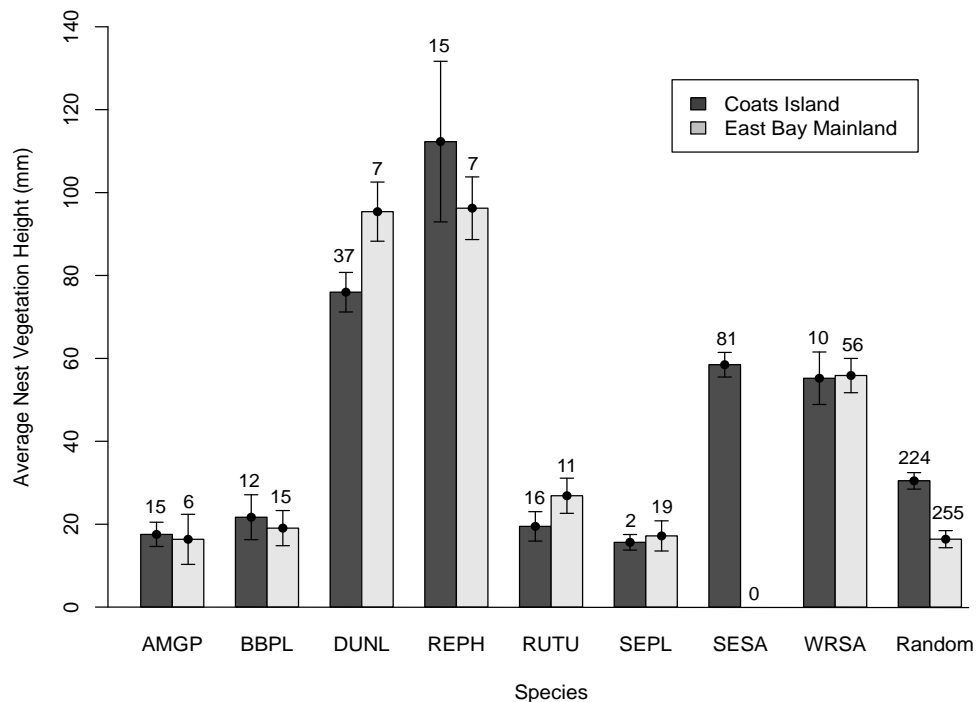
Titiqqak 1. Hinaanirmiuttat tingmiat ivayunit amihuuningit uvani 300x400m² manirarmi Coats Qikiqtami uvanilu East Bay mi Ahiarmi uvani 2014 mi 2015 milu.

Titiqqak 2. Uvininit naunaipkutat katitauyut nauniaqhimanilu attatat kititiqhutik Coats Qikiqtami East Bay iliyauni maniqami hiniktaumavikni.

Naunaipkutaq (Coats Qikiqtami / East Bay)	American Tuituat	Qiqnagiktumi k naalgit Tuituat	Higyagiat	Haavga q	Higyagiat q	Higyagiannuit	Tituaqyuit	Qakuqtumi k Iqqulgit Tuituat	Katitlugit
Katitlugit Mikilgaqmiat	0/1	4/2	1/0	3/2	18/0	0/2	2/5	0/0	28/12
Auk naunaipkutat	0/1	4/2	1/0	3/2	18/0	0/2	2/14	0/2	28/23
Hulungit	0/1	4/2	1/0	3/2	18/0	0/2	2/5	0/0	28/12
Anarningit	0/0	4/1	0/0	3/2	0/0	0/2	0/14	0/0	7/19
Naalautiqaqnit	0/0	0/0	0/0	0/0	30/0	0/0	0/0	0/0	30/0
Nano attatit	0/0	4/3	1/0	3/3	18/0	0/2	2/12	0/1	28/21

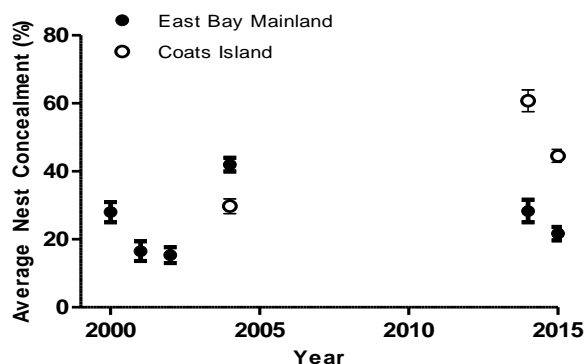
Ublut Nauhimanit

Ilagiplugit tapkuat kayuhinit Ph.D. havanguyut naunaiyaqni aktuanit amigaiqpallaqnit kangut natiqnaqni-ubluqaqvut hinaani tingmiat, nauhimani naunaiyaqni havaktauyut tamaitni ubluqaqvut tamatikni Coats Qikiqtaq tamnalu East Bay. Tamaat hinaanirmiuttat tingmiat ivayuit nayugaat, uuktuqhimayavut amihuuningit nayuqpauhingit ilitquhiita ihumagiyauvagaat hinaanirmiuttat tingmidjat ivavingit nayugaanit. Uvani ukiumi, turaaqhimayavuttauq tahapkuat nayuqpauhingit ihivriurningit ihivriuqtavut 224 aallatqiit nayugaa Coats Qikiqtami, unalu 255 uvani Southampton Qikiqtami. Qauyihaivlutik nayuqpauhingit ivayunit aallatqiinguyumilu nayugaanit taimaa ihivriudjarikhivlutik huqpani ivaviat nayurvingillu qauyihaqhugit kanguit nuuqattagiakhaat nayuqpauhiat aktuqtaugiakhaat ivayunit hinaanirmiuttat tingmidjanit. Ilangit hinaanirmiut tingmiat avatait haffuminngatut Dunlin unalu Higiyagiat, pukukhimagiakhaat ivayunit nayugaat kingiktumi iviqarnirmi (Titigqak 2 mi). Tahapkuat uumayuit aktuqtauhimayauyut ikitpalliahimayumi ivilingnit kanguit pihugviannit.



Titigqak 2. Aallatqiit ivavingit nunangit kingiktungit ukunani uumyuit aahiittauq nayugait Coats Qikiqtami East Bay Ahiarmi. Ihivriuqtangit aktilaangit naunaiyaivlutik amihuuningit qulaaniittut naunairvingmi. Amialikan Tuituaq (AMGP), Tuituaq (BBPL), Dunlin (DUNL), Higariat (REPH), Higiyariannuaq (RUTU), Semipalmated Plover (SEPL), Tuituaryuit (SESA), Qakuqturmik Iqulik Higiyariaq (WRSA), aallatqiittauq nayugaat (Aallatqiit).

Ivayuit pulahimayut uvanngat Ukiuqtaqtum tiriganniagit iyingit ihivriuqtauhimavlutik tamarmit ivayunit uukturautainit tamainnut uumayunut. Ilahimayangit aktuqtauningit nailihimayangit qaanganit nunami amigaittumi haffumani graminoids uuminngat *Carex subspathacea*, hivumuaqhimayangit kanguinnit pihugaangat, ivayunit pulahimayut pivlutik hinaanirmiuttait tingmiat uuminngat QakuqtukmikIqulik Higiyariat unalu Higiyariat parnautigiinnaqtangit pulahimayait ivayuit uukturautainit. 15 nit ukiunganit, ivayuit pulahimaniagit uumayunit uukturautiyut huli aulayuittut uvani East Bay mi (Titiqqak 3). Kihimi, ivayuit nayugaat pukukhimaningit pulahimayut ivayunit naunaiyaiyut hinaanirmiuttat tingmiat Coats Qikiqtami tikkuqahimayait nayugaanut ukunani 30% amihuuningit ivayut pulahimayait aahiinnit hinaanirmiuttat tingmiat ivayunit East Bay mi. Ubluit pulahimayut ilaliutihimayait kanguit Tirigannianillu hulidjuhiit ikayuutauvagaat kangiqhihuuyut ublut nakuurutainit. Kangiqhigiami tahapkuat hulivaktut illitturiami, ihivriuqhimayavuttauq niqikhaqhiuqtunut kanguillu hulidjuhiit naunaiyainikku, taimaa malruiqtarlutik ublut pulahimayut uuktuutainit ihivriuqhugit malruk nayugaanit.



Titiqqak 3. Aturaarnaqtumik hivituyumik amiqhaivikhait uuktuutauvlutik ublut pulahimayut (%) East Bay mi (Napturalingmi) unalu Coats Qikiqtaq (Angmaumayumi) Nunavut, Kanata.

Kangut Huguqtai Naunaiyaqni

2015 mi, huli uuktuqhimaagtavut hivitumik kanguit pihugviat ilaliutaunirnut uuktugaqtavut havagiyakhat pivaliatitai taphuma Dr. Ken Abraham ikayuqtiuyutlu tapkunani Kanatamiuni Angutikhat Kivgaqtit, uuktugaqninut attaqtunit kangut niginiaqvut. Hanavlutik nakuudjutaanut uuktuqhimaaghutik parnautingit uvani 2014 mi, nutaannguqtiqhugit nakatait malikhugit parnautingit atuqhugit nayugaanit tamainnut Nuat Amialikam Ukiuqtaqtum 2015 mi. Tahapkuat kangut huguini naunaiyaqni havaktauyut atuni atuqniqhaitni nayuqtauvaktut qanugitnit talvani Coats Qikirtaq tamnalu East Bay havakviptingni, naunaigahuaqhugit attaqtunit kangutnit piyauhimani nayuqatauvaktut huguqtiqnit (Titiqqak 4). Nainaqhugu, tahapkuat naunaiyainit ilalgit pihukniq 2 -100 miitat avanmun akuttunit tapkuat nunap qanga qanugitnia titiqtayuyuq

atuni miitani naunaipkuhiqhugu, puqtunialu, qanugitnia nauhimanit piqagianguk kangut niginiangni titiqtauyut tamaat qullit miitani. Havaktavut avataani 70 taimaittut naunaiyainit malgukni havakvikni, talvanilu inigiyaini hamaumayuni Southampton Qikirtani, tikitaulat halikaaptakkut atpaqtitlugu Juni. Piguqvigiplugu atuttiaqni 2014-mi, nutanguqhimayuq piyat uumunga atuqtauniat inaitni humiliqak North American Ukiurtaqtuani 2015-mi.



Titirauyaq 4a. Lisa Kennedy tamnalu Emma Davis uuktugaqta puqtuni nauhimanit tahamani kangut ivavigiyaini amigaittut talvani East Baymi. Naunaiyaqtavut nayuqtauvaktut huguqtaunit inigiyaini ulapihaqhimanit tahamani Southampton Qikirtaqmi 2015-mi. **4b.** Scott Flemming havakhuni nayuqpauhinut qauyihaqtut hilaluvyaktumi uvani Coats Qikiqtami.

Ublut Amiqhainirnit unalu Niqikhaqhiuqtut Hulidjuhiit

Amiqhaihimayavut hinaanirmiut tingmiat ublungat tamarmik auyaraalungmi ihivriuhivlugit ilitquhingit. 2015 mi, ilittuqhihimayavut hivunngani uumani 118 ubluit Coats Qikiqtami. Kihimiinnaq 24 naammaktumik inunnguqhutik; ikitpalliayuugaluaq aippaanganianit hilaluinnaraluarat amnningillu ikitpalliavluni (kanguit) nirivaktangit. Haffuminngatut, ublugiakhivlutik East Bay mi ikitpalliayuq Coats Qikiqtarmit. Taimaa ikitpalliaaranninganit ubluit uvani East Bay mi takunnaqhuni taimaa ihivriurumavlugit hungmangaat aktuqtauhimagamik kanguit aahiillu tingmidjat. Hamna iliktauyut ikivalliagami ublut inuuhianit East Bay mi niqikhaqhiuqpallaaramik amihuuyut qanilruani kangurnit amihuaryunit.

Tiriganniat ihunngaillu amihuryuaqhutik niqikhaqhiuqtunit hinaanirmiuttat tingmidjat ubluinit. Ihivriudjarigiami hungmangaat amihuuvlutik haniani kanguit amihuaryuit, illirihimayavut ukuninngat PlotWatcher Pro qunniarunmik qanilruani hinaanirmiuttat ubluit (Titiqqak 3, Naunaitkut 5 mi) ilanganilu nayuliqpagainnit. Kangiqhihimayavuttauq tahapkuat niqikhaqhiuqtut amigaittut uvani nayuqpauhingnit. Kangiqhihimayavut niqikhaqhiuqtunut amigaitpiaqhuni qanilruani kanguit amihuaryungmi Ease Bay mi; ihivriuhimayavut nipiliuhugit ikayuutaavluni qauyihiayavut ikaarnigut qunnialiuraaqhimayavut. Talvangaanit, amihut niqikhaqhiuqtut nipiliuhimayavut Tiriganniat unalu 2 pinguyarnaqtut Ihunngait.

Hapkuat piksaliun atuqtauvakhutik amiqhaivlutik irniutunut ilitquhiita hinaanirmiuttat tingmiat ihivriuhugu nanminiit ivayunit hiqumittavlutik nayuqpauhianit pivalliavlutik qanuq ihivriuttarumavlutik ivayunit nutqallakhutik. Haffumani uumayuit kingiktumik pulahimayut ivayunit, qunnialiuffaaqhimayavut naunaiyaivluta uunarningit iliuravlugit manningit. Tahapkuat

ihivriuqhimayavut aallatqiinit niklaumaningit tingmiat qimagaangamitku ivaviat, taimaa ihivriudjarikhivlugittauq ilitquhingit nakuuyumik ilitquhiqtut pivlutik.

Hamna ukiungani havakhimayaraluaqqut nanminiunngitamingnit ivavingit qauiyhaqhutik ihivriuhugit niqikhaqhiuqtunut ilitquhiita haniani kanguit amihuaryungnit. Amiqhaivluta ilitquhingit ivayunit hitamauyut manniit, taimaa aadjikkuhiqhugit hinaanirmiuttat tingmiat, uvani aallatqiinit nayuqpauhianit, quyaginnaq ungahingnianilu kanguit amihuaryunit. Aulattitiviluta 60 nit nanminiriyaunngittunik ubluit iluani amihuaryunit East Bay mi, 60 nit ubluit 5 km ungahingnianut amihuaryuinmi, 60 nit ubluit 10 km ungahingnianut, ilagivlugulu 60 nit uvani Coats Qikiqtami. Qauyiharningit naunaiyaviit huli aulaviraaqhimayaayut.

Titiaqqak 3: Hinaani tingmiat ublut angunahuaqti huliniit piyauyut upluqhiutai-kayumikhinit piksaliutit talvani Coats Qikirtaqmi unalu East Bay mi 2015 mi.

		AMGP	BBPL	DUNL	REPH	RUTU	WRSa	SEPL	SESA	Tamatkiumayait
Coats Qikiqtaq	Piksaliut Aulapkaiyangit	3	1	6	3	0	3	0	12	28
	Niqikhaqhiuqtut Huliyunit	3	1	3	1	0	2	0	10	20
East Bay	Piksaliut Aulapkaiyangit	3	4	1	2	4	24	7	0	45
	Niqikhaqhiuqtut Huliyunit	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Titigauyaq 5. Tamna ukirtaqtumi tigiganiaq atuqpiarniqhaq angunahuarti hinaani ublut talvani East Bay tamnalu Coats Qikirtaq ianitni. Naunaiyainivut naunaiqhiniat nalait tapkuat tigiganiat upakhigiangi kangut amigaitpiaqtut ihuilgutauyangi aktuanit tahapkununga hinaani tingmiat ivattiagianguit.

Piksaliuqhimayut takunnaqtuq hamna Tuituat hapumminahuaqtait ublungit hamanngat kanguit, niplautigivlugit tingmivlutiktauq kaivittaqhutik ublunganit nayugaanit (Titirauyarniq 6). Una ilitquhingit kiuvagait angikliktiqtauvaktut hulidjuhiit haniani ublungani nayugaanit taimaa tautukhimavagait niqikhaqhiuqtunut taimaa inuuraarnaittuni ivayunit. Tahapkuat ilaqtut, tingmilaittunillu Kanguit inungnut pittailivaktait, nayuinnaqhugillu qauyiharviup nayugaat pinahuaqpakhugillu ivayunit hinaanirmiuttat tingmiat unnuligaangat havaktut ikivalliigaangat nutqagaangallu manirarmi. Piksaliutait ilivakhugu ubluanit taimaa takunnaqpiaqtunik ilitquhingit piksaliuliqpaktut Tuituannunit ilaani takukhauyuitpaktut kanguit amihuuliqpakkamik, mitquiyaliqpakhutik tingmiliqpakhutiktauq inungnit tautungnaliraangat.



Titirauyarningit 6. Tuituat

hapumminahualiraangat ivayunit tingittumik inirniit tingmiarnit ivayunillu.

Aktuanit Nayuqtauvaktut Ahianguqni Imaqmiutarnut Uumatyutauyuni

Tahigait mihaluqaqnitlu takuttigiaqpiagtut ilagiyai tagiup hinaani ukiurtaqtup natiqnani. Tapkuat nayuqpakta ahianguqni pipkaliqpagaat kangut niginiaqninit nunagiyauyuni nayuqpaktaini pilaqtut aktuaninik imaqmiutat uumatyutaunitluttauq. Havaqatigiplugit Weston Taakingurtaqhimayuq Inuk Dr. Heather Mariash, pigiaqtavut naunaiyaut 2014-mi, naunaiyaqninik naliat kangut ahityiqtai aulanit niqittiagigutauyut tahapkunani havagutaini, and whethernaliatlu piqatigit imaqmiutat uumayuvaluit (angunahuaqtai ahii tingmiat allatqit) aktuayauyakhai. Qauyihaqni huli havaktauyut, piplugfitlu tapkuat hivulliuyut qanugitnit, pilaqtavut ilagiyaunit naunaiyautit 2016-mi.



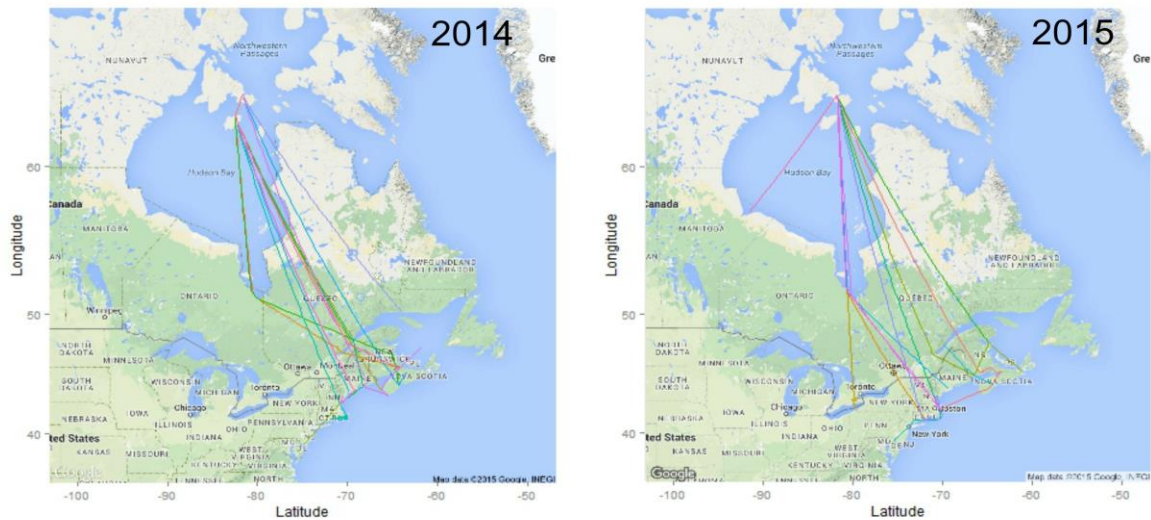
Titigauyaq 7. Dr. Heather Mariash halumaqhaiyuq imaqmik unniqtuttiaqhimayai niqittiagikni aulanit nunanit imaqmiutaqnut uumatyutainut, tahapkununalu allatqit nunagiya puqtunit imaqmiutaqnut uumayuvaluit.

Uumayuvaluit Naunaiyagat Katitauni

Uumayuvaluit hauniittut atuqniqhauyut angutagiyai hinaani tingmiat qaphiunitlu uuminngat Tuituaryuit 2015 mi. Uvani auyami, havaqatihimmaaqtavut ukunani Manomet Centre Qauyihaqtuliqivingmi, aulapkaivlutalu 30 nit hilahiummik Utiqtaqtut ukunani Tuituaryuit hinaanirmiuttat tingmiat uvani Coats Qikiqtami hiniktarviit. Utiffaarmiyait haffuminngat, aippaagut, ikayuutauniaqhunilu naunaiqhiilutik utiqtaqtut iningit haffuminngat uumayuut ikayuutaunilulu havaqatigiilutik kangiqhittiariangani utiqtaqtut katilviuvaktut tamainnut amihuanit.

MOTUS Angutikhat Qagitauyakkugutai Piyaunit

Qangahaq atuliqtaunit pitquhiqnut angiyumik mikhigaigutai akitunit tapkuat VHF naunaiqhimani tuhatyutit, pipkaqhugit ayuqnaiqnit atuqninut amihut tuhatyutit humiliqak attaqtuuyumi nunaliquitinut nunanut. Una tatty atuqtuq tahamani Kivaliqhiqni North Americami, piplugit hannait napaqtit napaliqtut allatqini atuqniqhani nutqaqngvigiyaini inait hinaani tingmiat ahiilu tingmiat (Titiqqak 8). Uvagut atuqpiaqtugut ikayuqtigiktugut pihimavluta una pinahuaqnianut atuqnilu allatqit havanguyut uuminga pitquhilgit 2014-mi. Naunaipkutagiplugu, talvani Coats Qikiqtaq tamnaluk East Bay hiniktaumavit, atuqtavut mikiyut napaqtit naunaiqhimaninut nunalikni ingutarnit tingmiat (iluani 20 kilaamitat). Atuqhugit tahapkuat napaqtit, attataqhugitlu mikiyunuit attatait (<1g) tingmityanut tunuinut nipiuhiqhugit, kangiqhivallilaqtavut pitquhit atuqtitlugu tamna ivaviunia. Piplugitlu tahapkuat napaqtit hiqiniqmun ikumatyutilgit aulayutlu ukiuq tamaat, naunailaqtavut qangauyanga tingmiat tikittangi aulagangitluniit tahamanga ivaviuyunit nunanit, tahamaningitkaluaqtitluta inigiyani. Atuqhugit mikiyunnuat napaaqtut aulapkaihimayavut uvani 2014 mi Coats Qikiqtami East Bay milu naunaivlutik qanilruanut ingilrayunit tingmianit (qanilruani 20 km), ilaliutigivlugillu mikiyunnuanit nipittugit quliinganit nipitiqhugit, taimaa aulapkaivakhutalu qanuq kangiqhinahuaqhugit ilitquhiit ivaliraangamik auyami. Tahapkuat napaaqtuit hilaup ingilrautilaahutik auyaraaluk ingilrahimavaktut taimaa kangiqhinnaqpiaqhunilu humiliqaak tingmiat tikittaraangat aullaraangallu ivaviannut, ilahimaitkaluaqhutalu uvani nayurvianni. Ph.D. ilihartuq Lisa Kennedy talvanga Trent Hilattuqhaivik atuqniaqtai tahapkuat tuhagakhat kangiqhinahuaqninik nayuqtauvaktut huguqnit kangut pivakninit niginiaqpaknit tikitpaktai pivigiyatlu ivaviuni aulaqpaknilu, pititlugu M.Sc. ilihartuq Sarah Neima talvanga Mount Allison Hilattuqhaivik ikayuqtatigut attahiqnit pivaliatitni ivaviuyuni nunani, talvangalu aulaqhutik maniqami inaitnut talvani Bay of Fundy utaqiyaqtuqhutik tikitnik "pigiyaavut" tingmiat atuqtitlugu qaplunaat nunanungauni aulaqnit, talvani munagiyai tapkuat nutqaqpakvit pitquhit akuniutiginiilu talvanitni. Una nutaq tuhagakhaq ikayuqniaq nakuuhivalliqninik munaqhivut hinaani tingmiat amigaitnit nutqaqpakvini inaitni, tuhagakhatlu ivaviuyunit nunanit ikayuqniat naunaiqni aktualaqnit amigaiqpallaqnit kangut tahapkununga tingmiat qanugitninut, aulaqni, kinguagutlu aulaqpakni pitquhit.



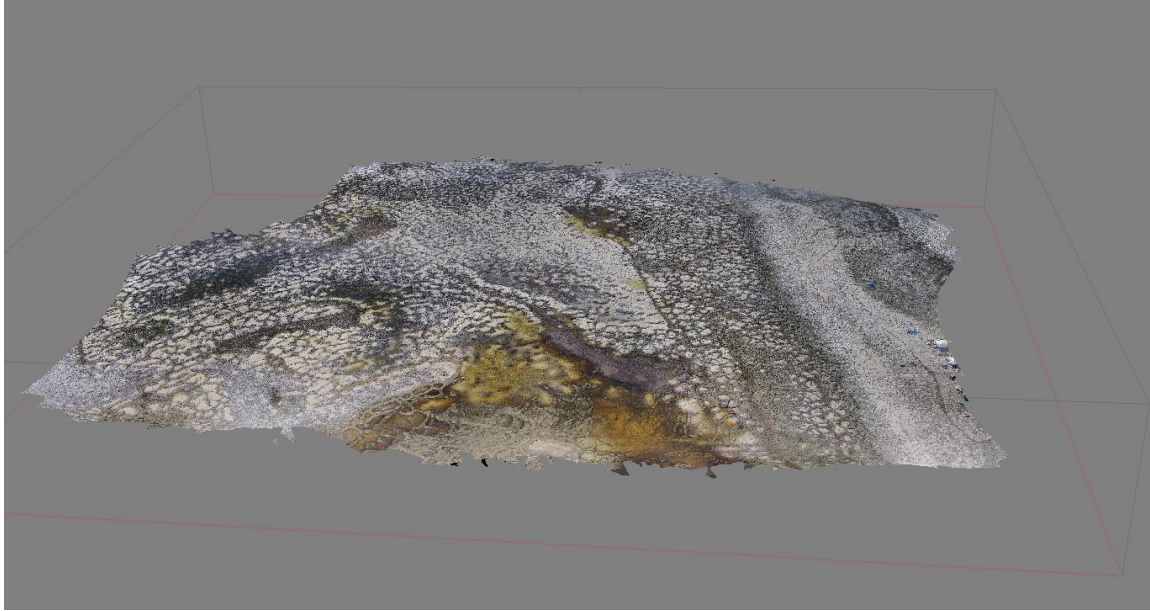
Titiiqqak 8. Tingmiaq tumingit haffuminngat hinaanirmiuttat tingmiat ivayunit uvani Southampton Qikiqtami unalu Coats Qikiqtaq Nunavut tamainnut MOTUS VHF uukturautait (www.motus-wts.org, sensorgnome.org). Qauyihaivaktut tingmidjanit tamarmik napaaqtumi aturnaqtuugaluaqtut ihivriuriangani utiqtaqtut tingmivaktullu haffumanngat ivayunit nayugaanit unalu utiqtaqtut ingilrayunit Bay of Fundi mit unalu Delaware Bay mit, ihumagiyaulluaqtut tingmiat unaguqhirvingat utiqtaqtut utiffaaraangata.

Ilitariyaayut Ilihaqtut Qauyihaiyunit Havaariyaayukhanut

Malruk ilihaqtut uvanngat Trent Ilinniavigyungat, Kevin Young unalu Shawna-lee Masson kititiqhimayangit naunaiyaivlutik Ilitaridjutainit qauyihahutik havaariyaayukhanut ukiungani. Kevin qiniqhiavangniaqtuq aktuqtaunirnit uuminngat inimingnitpiksaliunmut ubluat amiqhainirnut ukunangat niqikhaqhiuqtunut uuktuutainit hinaanirmiuttat tingmiat tamainnut ivaliraangat tamainnut imaup hinaani ivilingmilu nayuqpauhingit aallatqiit. Shawna-lee atuqhimaniaqtuq naunaiyaivluni kititiqhimayangit inianut piksaliunmik ihumaliuqhutik qanuq avatingnut aallatqiignit hilaup aktuqhimayut tirigannianit niqikhaqhiuqtunut uuktuutainit.

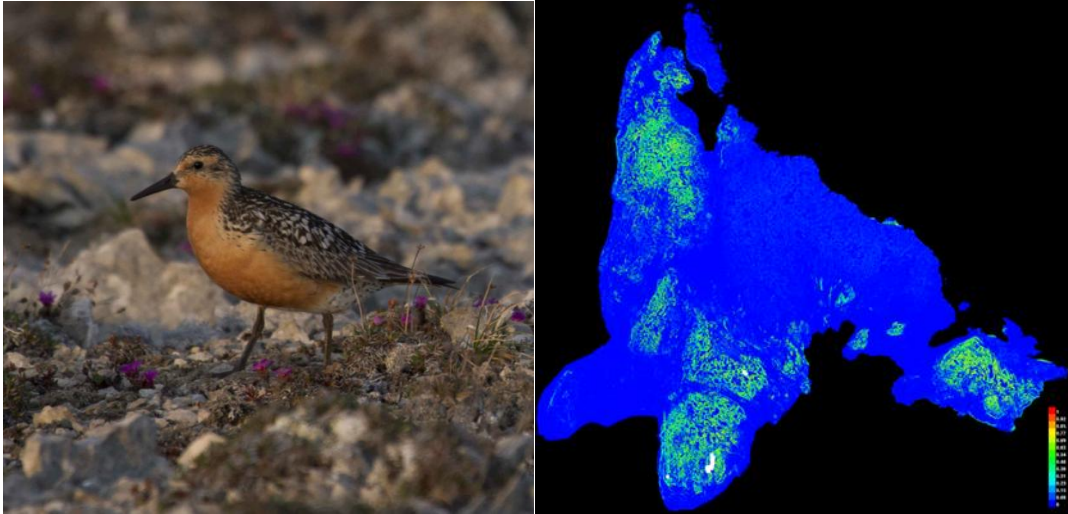
Meso-uuktuutainit Nayuqpauhianut Nunauyaliginiq

Uvani 2015, aullaqtilihaaqhimayaqqut uuktuinnaqhutik havaariyaayukhanik pivalliyaami uuktuutainit nayuqpauhianit nunauyait nayugaanit atuqhugu ingniqutilingnit (UAV). Atuqhugillu Agisoft qaritauyakkut, piksaliuqhimayavut piksait pinahuaqhugit nakuuqpiqatmik piksait takunnaqpiqatut 3D aadjikkutaanit ivayunit inaanit (Titiiqqak 9). Taimaa turaarviyaangat qauyihainikkut hinaanirmiuttat nayuqpauhingit tautulaaqtut tamatkiumayutut piksait, uukturautainillu angiyaaqtumi tautukpagumagumik manirarmi (mikitqiyaanit anikkut qunnaliuqpaktut, ilaani ihivriurnaitpaktunilu ivayuit nayuqpauhingit aturnaqtut). Una iningit aallatqiinit ihumaliurnaqhunilu qanuq hinaanirmiut tingmiat pukukhivakhutik ivayunit nayuqpauhingit.



Titiiqqak 9. Nayuqpauhingit hanauyainnauyuq atuqhugit qulaanngat piksait piksaliuqtauhimayut nivyaagtulingmit.

Haavgait Naunaiqhimani Nayuqpaktailu Nunauyaliuqnit tahamani Southampton Qikirtaqmi Tamna rufa Haavgaq qangahaq titiqtauyuq Nungutnahuqugiyaunit Kanatami Qayagiyaavaktut United Statesmi. Pigiaqhugu 2013-mi, atuqtavut tingmitikkut naunaiyainit, maniqamittut nayuqtauavaktut naunaiyaqnit tapkuatlu VHF tuhatyutikkut kangiqhittiaqpaliqninut hiamakhimanit nayuqtauavaktutlu atuqnit uumanga uumayunit humiliqak Southampton Qikirtaqmi, atuqniahauyaini tikkitpaktaini. 2013-mi, maniqami havaktit pityutaayut ikayuqtigikninit Dr. Larry Niles (Nunguttailini Angutikhat Tunngaviat taphuma New Jersey) qiniqni ivayut *rufa* Haavgait humiliqak qikirtaqmi, tapkuattauq 2013 tamnalu 2014, Qavatiligiyyit Kanatami atuqtai halikaaptakkut – maniqamittutlu naunaiyaqni atpaqtitlugu Juni. Uuktugaqni ivayut nayuqpaktai titigaqtauuyut, piqatigiplugitlu qangattaqhimayukkut takukhautyutai, tahapkuat tuhagakhat ikayuqtut pivaliatitninik uuktugutit atuqtauuyumaniqhat haavgaqnut humiliqak Southampton Qikiqtaani (Titiiqqak10) tadj qimilruqtauhimayut makpiraaliuqtakhait. Una uuktugut atulaqmiyuqtauq ahiinut nunanut, nalautagahuaqninut humi hapkuat ikiklihimanit hiamaumani uumayut piniagahugiyauninut, humilu naunaiyainit havaktauyukhat hivunikhami.



Titiaqak 10. Tamna *rufa* Haavgaq nungutnahuqugiyauyuq Kanatami ihumagiyauyuqlu titigaqtaunia talvani United Statesmi. Southampton Qikirtaq iluanittuq taphuma aturniqpaq ivaviuyut tikitpaktaini. Havaqatigiplugit ikayuqtuiyut Larry Niles (Nunguttailini Angutikhat Tunngaviat New Jersey) tamnaluk Rick Lathrop (Rutgerkut Hilattuqhaivik), hanahimayavut uuktugaut unniqtuiyuq atuguminaqniqhanik nayuqtauvaktut humiliqak Southampton Qikirtaqmi. Uunaniqnut taqhait (hungayapyaktuq quqhurtuqlu) naunaipkutauyut atuguminaqniq nayuqtauvaktut, tapkuatlu hungayartuq naunaipkutauyuq naamangittunut nunanut.

Maniqami Havaqatigit tapkuatlu HQP-kut

Tapkuat 2015 mi maniqami havaktit talvani Coats Qikirtaq tamnalu East Bay ilalgit akuhimayunik atuqpaknit ukiurtaqtumi naunaiyaiyit, ilihaqtut tapkuatlu Inuit hivuliqtut. Ph.D. pingurtukhaq/havaqatigit hivuliqtiat Scott Flemming tamnalu Lisa Kennedy pigiaqta naunaiyaiyit 2014-mi, talvanitniaqhutiklu ikitniqhamik malguknik ukiuknik Coats Qikirtaq East Bay milu, ihumagiyauyuq, nikittaqlutik hiniktaumavikni, naunaiyaqninik aktuanit amigaiqpallaqni kangut tahamani natiqnait ivaviuni hinaani tingmiat. Tamna 2014-mi Coats Qikirtaq Havaqatigit ilalgit: Scott Flemming, Paul Smith, Shawna-Lee Masson, Rianne Mariash, Malkolm Boothroyd, Sarah Neima, Karissa Reischke, Brad Winn tamnalu Shiloh Schulte Brad Winn tamnalu Shiloh Shulte ikayuqtigiktut tapkunanga Manomet Havakvik taphumunga Nunguttailinit Naunaiyaiyit, ilagiliqtailu tapkuat Coats Qikirtaq havaktit Juni-mi pitagahuaqninik aulapkaivlutik naunaiyaiyut qiniqhianirnit himmautauniaqhuni 2016 mi. Sarah Neima tamnalu Karissa Reishke havaktai qauyihainit tugangayut tapkununga MSc ilihaqtaqtigutikhait aulaqpaktunut pitquhit tapkuat Higiyagiat manigaitnaqmilu ikpiginin kangutni piyauni nayuqtauvaktut ahianguqnit, tukligiknitigut. Tapkuat 2014-mi Havaqatigit talvani East Bay ilalgit: Lisa Kennedy, Paul Smith, Jennifer Gale, Victoria Putinski, Emma Davis, Stephen Parmiter, Heather Mariash, Kevin Young, Brandan Norman, Kate Roper, Gillian Holmes, Josiah Nakoolak tamnalu Jupie Angootealuk. Taaktinguqtaqhimayuuq Qauyihaiyi Dr. Heather Mariash, naunaiyaiyuq qanuqtut kangut aktuayangi niqittiagiknit aulaninut tahapkunani niqauvaktut natiqnami mihaluqaqnini. Talvanga atpaqtitlugu Mai tikittugu Juni, ilaqaliqtugut tapkunanga Josiah Nakoolak tamnalu Jupie Angootealuk Salliqmin. Josiah pihimayuuq avataani 20 ukiunik atuqpakhimani ikayuqninik naunaiyaiyivut uqautyiplunilu Jupiemik. Josiah tamnalu Jupie hanakmiyuktauq nutamik niqhiurvikmik igluqpannuaqmik havakvikmi 2015-mi, pipkagutauniaq hivuganaitniqhamik niamngiyarnatqiyamiklu atuqtakhatnik havaktit hivunikhani ukiuni. 2016-mi, ilaliutiniat uvaptingnut tapkuat upinaqtut B.Sc. ilihaqtut Shawna Lee-Masson tamnalu Kevin Young, talvanga Trent Hilattuqhaivikmin.

Ihuaqhaiyut ikayuqtit piqaqtittauyut tapkunanga Christine Eberl, Mike Janssen Jake Russell-Mercier.

Tugaqvikhaq

Kitunikliqak apiqutikhaqaguphi, uqauhit ihumaluutitluniit, tugaqvigilugu:

Paul Smith

Nunaqyuaqmi Angutikhat Naunaiyavik tamnaluniit Nunaqyuaqmi Angutikhat Naunaiyavik

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